AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method of growing mammalian spermatogonial stem cells, which comprises growing mammalian spermatogonial stem cells by culturing the spermatogonial stem cells for at least 3 to 4 weeks using feeder cells and a medium containing (a) glial cell-derived neurotrophic factor ~~(GDNF),~~ (GDNF) or neurturin, ~~or artemin and~~ (b) leukemia inhibitory factor (LIF), and (c) serum.

2. (Original) The method of growing spermatogonial stem cells of claim 1, wherein the above-described medium further contains at least one of epidermal growth factor (EGF) and basic fibroblast growth factor (bFGF).

3.-5. (Canceled)

6. (Currently Amended) The method of growing spermatogonial stem cells of claim 1, wherein the ~~above-described glial cell-derived neurotrophic factor (GDNF) or an equivalent thereto~~ GDNF or neurturin is contained at a concentration of 0.5 to 50 ng/ml in the ~~above-described~~ medium.

7. (Currently Amended) The method of growing spermatogonial stem cells of claim 1, wherein the ~~above-described leukemia inhibitory factor (LIF)~~ LIF is contained at a concentration of 10^2 to 10^4 units/ml in the ~~above-described~~ medium.

8. (Currently Amended) The method of growing spermatogonial stem cells of claim 2, wherein ~~epidermal growth factor (EGF)~~ the EGF is contained at a concentration of 0.5 to 50 ng/ml in the ~~above-described~~ medium.

9. (Currently Amended) The method of growing spermatogonial stem cells of claim 2, wherein the ~~above-described basic fibroblast growth factor (bFGF)~~ bFGF is contained at a concentration of 0.5 to 50 ng/ml in the ~~above-described~~ medium.

10. (Currently Amended) The method of growing spermatogonial stem cells of claim ~~3,~~ 1, wherein the ~~above-described~~ serum is contained at a concentration of 0.1 to

5(v/v)% in the medium at the start of cultivation of the ~~above-described~~ spermatogonial stem cells, and at a concentration of 0.1 to 20(v/v)% in the medium after passage of the ~~above-described~~ spermatogonial stem cells.

11.-27. (Canceled)